

SHEET 1 OF 10

USED ON

MLT-1540

DATE

11 September 1970

REVISION

(See last sheet)

TITLE

(PRELIMINARY)

ACCEPTANCE TEST PROCEDURE FOR LIGHT TABLE MLT-1540

STAT

SERIAL NUMBER _____

TEST BY _____

DATE _____

TIME _____

DDR-DUPE

PREPARED BY

DATE

APPROVED BY

DATE

STAT

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1.0 PURPOSE

The purpose of the Acceptance Test Procedure is to verify that the Modular Light Table, MLT-1540, meets its functional and performance requirements.

2.0 EQUIPMENT REQUIRED

2.1 MLT-1540 complete per Drawing No.

STAT

2.2 Test film as follows:

9.5 inch wide, 4 mil base, 1000 foot roll, 500 foot roll

6.6 inch film

5 inch film

70mm film

2.3 Empty take-up spools

(This should be commensurate with the number of films required as listed above.)

2.4 Stop Watch

2.5 GFE foot lambert meter (Weston Model 759)

3.0 ACCEPTANCE TEST

Completion and verification of each of the following items shall be noted by inspector's stamp in the space provided.

3.1 Mechanical and visual inspection

The MLT shall be carefully examined to determine conformance to the requirements of Drawing ; Outline Drawing. Moving parts such as covers, latches and gear mechanisms shall be checked to assure proper fit and operation without sticking or binding. Quality of workmanship, proper materials and finishes, nameplate installation, etc. shall be verified.

STAT

Stamp _____

STAT

Mechanical Check

Workmanship

Stamp _____

Decals

Stamp _____

Circuit Diagrams

Stamp _____

3.2 Power Check

Power Indicator Lights

Stamp _____

Elapsed Time Meter Operates

Stamp _____

Fans Operate

Stamp _____

Noise Within Acceptable
Audible Level

Stamp _____

Vibrations Within Acceptable
Level

Stamp _____

3.3 Illumination

Warm up - all on maximum intensity for 30
minutes prior to proceeding with the next
step.

Stamp _____

Maximum intensity - 3000 ft. lamberts
within 2 inch radius of center

Stamp _____

Minimum intensity - 75 ft. lamberts
within 2 inch radius of center

Stamp _____

Balance - two within 100 ft. lamberts
at maximum intensity

Stamp _____

Interaction - one at minimum or
maximum does not change more than
100 ft. lamberts through full range
of other

Stamp _____

CLASSIFICATION

SHEET NO. 5

Uniformity - record on the following sheets the foot lambert readings at points 1 through 17 with illumination levels of 1000, 2000 and 3000 ft. lamberts. Record similar readings for left light source.

Illumination does not exceed 15% difference between any two measurements taken within frame area indicated and no greater than 30% over the entire surface.

Right Light Source

Stamp

Left Light Source

Stamp

Flicker - none visible

Stamp

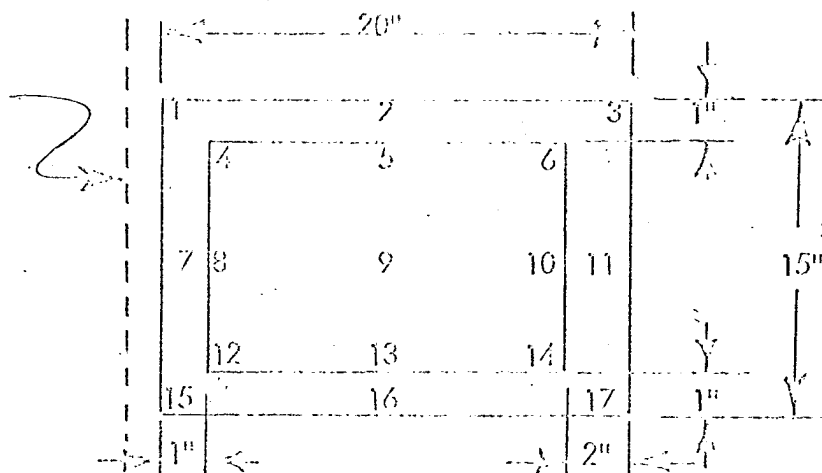
STAT

CLASSIFICATION

SHEET NO. 6

Right Light Source Record Sheet

Table
Center Line



1000 Ft. Lamber's

2000 Ft. Lamber's

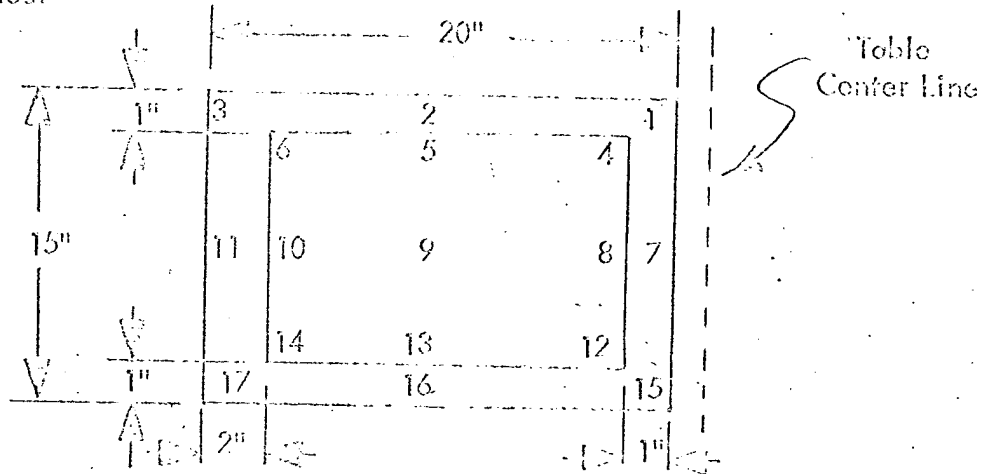
3000 Ft. Lamber's

1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

CLASSIFICATION

SHEET NO. 7

Left Light Source Record Sheet



	1000 Ft. Lamberis	2000 Ft. Lamberis	3000 Ft. Lamberis
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

STAT

CLASSIFICATION

SHEET NO. 8

3.4 Adjustable Stand

Verify that table elevation operates through full available travel and will lock at any height. Stamp _____

Emergency hand crank operation - smooth, easy, and will lock at any range. Stamp _____

Tilt free travel through entire range. Stamp _____

3.5 Film Handling System - each film station

Check operation of drive housing and center support positioning and detenting Stamp _____

Check operation of spindle retraction Stamp _____

Check rollers for freedom, nicks, scratches, etc. Stamp _____

3.6 Transport Speed and Operation

9.5 inch film (4 mil base) Normal Mode

Minimum speed < 1 inch/sec. Stamp _____

Maximum speed
1000 ft. < 3 min. Stamp _____

500 ft. < 1 min. Stamp _____

Check operation on 9.5" film in split mode. Stamp _____

Parallel mode - two 5" films loaded parallel will drive individually or simultaneously in same or opposite directions. Stamp _____

Check transport operation with three 5" films on table. Stamp _____

Check for excess tension and/or loop throwing when full reversal occurs. Stamp _____

STAT

CLASSIFICATION

SHEET NO. 9

Looping mechanism - load film in normal mode

Check mechanical operations by
looping film.

Stamp

Operate transport

Stamp

3.7 Microscope Carriage and Mount

Full travel - in any Y direction.

Stamp

No binding or rough spots

Stamp

Check locks - hold against 10 lbs. of force.

Stamp

Check motor drives in X and Y directions

Stamp

Speed - 0 to 0.5" per sec.

Stamp

Vibration with acceptable level

Stamp

Microscope mount operation adjust -
free and lock condition

Stamp

Parallelism within .015 of carriage to
viewing surface as measured according
to chart and recorded on the following
sheet.

Left Source

Stamp

Right Source

Stamp

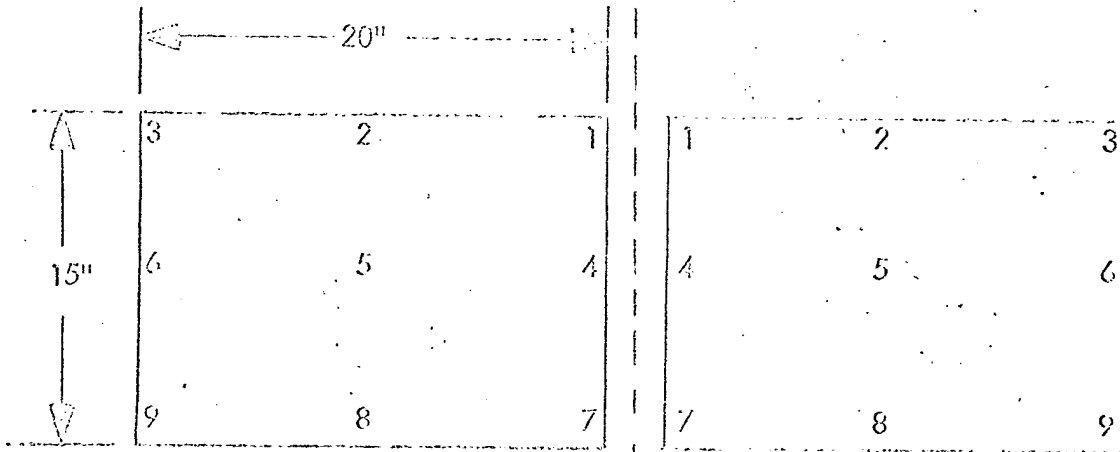
STAT

CLASSIFICATION

SHEET NO. 10

Parallelism Record Sheet

Table



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

Left Source

Right Source

STAT